BRUHAT BANGALORE MAHANAGARA PALIKE

YALAHANKA ZONE

"Modefied Schedule B"

Name of Work:-Detailed Modefied Estimate for roviding Multi colour Shade lights at parks in ward no 03 & 04 of Yelahanka Sattelite Town Sub Division

Sl.No	Qty	Description Of Work	Unit	Quoted Rates	
				In figures	In words
1	51	Supply,Installation,TestingandCommissioningofLEDRGB/RGBWfloodlightingluminaireforfacadelightingwithDie-castaluminiumhousing, powder-coatedfinish,offollowingwattage.Luminaireshallbecapableofproducingdynamiccolorchanginglightforwith16millioncolorsbyDMX/Ethernetbased control.Thebeamangleofthefittingshallbenarrow,medium,wideorasymmetricaspertherequirement.Luminaireshallbecompletewithdriverandcapableofoperatingatlinevoltagewithoutanyseparatepowersupplyfrom100-270VAC,50Hzwithpowerfactor>0.9.Fixtureshallbesuitabletooperateatanambienttemperaturerangeof-10°Cto+50°CandshallbeIP65andIK06rated.LifetimeshallbeatleastL70:50000burninghoursat50°C.LuminaireshallbeconformingtoBIS(IS10322)andshallbecompletewithallnecessaryaccessoriesrequiredforproperworkingoffixtureincludingweatherproofconnectioncables,waterproofconnectorsetc. as required.75 W	Nos	51411.49	Rupees Fifty One Thousand Four Hundred Eleven And Paise Forty Nine Only
2	28	140 Watts	Nos	78691.78	Rupees Seventy Eight Thousand Six Hundred Ninety One And Paise Seventy Eight Only
3	12	30Watts	Nos	20999.93	Rupees Twenty Thousand Nine Hundred Ninety Nine And Paise Ninety Three Only
4	0	Supply, installation, testing and commissioning of booster amplifier with power handling of 250 to 300 watt RMS 4ohms Dual and 100/70 volt output on bridge mode single channel Rack mountable Specs: frequency response : 20 htz to 20khtz	No	28899.95	Rupees Twenty Eight Thousand Eight Hundred Ninety Nine And Paise Ninety Five Only
5	0	Supply, installation, testing and commissioning of 4 to 6 Channel 4 mic/line input mixer with 2/3 band semi parametric eq 2 bus and 2 aux 2 stereo return.	No	13427.20	Rupees Thirteen Thousand Four Hundred Twenty Seven And Paise Twenty Only
6	0	Supply, installation, testing and commissioning of out door garden speaker fitted with wide response and water resistant polypropylene speaker components and strong aluminium alloy housing permits various outdoor application omni directional speakers IP 55 norms 40W/100 volt with taping of 40/20/10/5watts 88 db . 160 Hz-16KHz Dimensions DIA 185mm x H765 mmfrequency response Preferable. Make : Ahuja/Eq	Nos.	18504.36	Rupees Eighteen Thousand Five Hundred Four And Paise Thirty Six Only
7	1	Supply and Instalation of Automatic Show time unit & programming	Nos.	31942.05	Rupees Thirty One Thousand Nine Hundred Forty Two And Paise Five Only

8	1	Supply and Instalation of Master Controller The highlights of MasterLogic-200 PLC system are: • Powerful & Versatile CPU (high speed / memory, IEC programming etc) • Compact footprint (Rack room, cabinet space saver, shipping costs saver) • Modular options (power supply, range of I/O modules to suit your configuration) • Flexibility in module assignment – any module can be installed in any slot of any base without any restrictions. • Open networks (Fast Ethernet, UTP/Fiber-Optic, serial RS232C /422/485) • Open protocols (Profibus-DP, MODBUS ASCII/RTU/TCP) • Peer-to-Peer networks (Dedicated Fast Ethernet on UTP/Fiber-optic) • Simulation Environment to test control strategies without hardware or process connections. • Engineer-friendly software (Connection options, easy configuration &trouble-shooting) • Diagnostics (System/Error Logs, system monitoring, network monitoring,ping test, frame monitor) • Experion PKS & Experion HS Integ	Nos.	289649.88	Rupees Two Lakh(s) Eighty Nine Thousand Six Hundred Forty Nine And Paise Eighty Eight Only
9	2	Supply and Instalation of DMX Splitter, DMX Input x1, Output x4, Thru x1, 3/16" Threaded Hole for Clamp, Opto-Isolated	Nos.	56320.81	Rupees Fifty Six Thousand Three Hundred Twenty And Paise Eighty One Only
10	1	Supply and Instalation of custom computer or stand alone programmer for RGB lighting show	Set	185054.09	Rupees One Lakh(s) Eighty Five Thousand Fifty Four And Paise Nine Only
11	3	Custom Smart Lighting Design and Programming Smart Lighting Design Project Consulting fee -	sequences	131819.44	Rupees One Lakh(s) Thirty One Thousand Eight Hundred Nineteen And Paise Forty Four Only
		Total Rs			
		PART B			
12	720	Supplying and drawing UTP-CAT 6E LAN cable.	Mtrs	30.42	Rupees Thirty And Paise Forty Two Only
13	1	Supplying, erecting, testing & commissioning of ON-LINE UPS system suitable for operation on 230V, 50Hz, A/C supply, with isolation transformer all accessories complete and Excluding batteries and wiring complete.3 KVA ON LINE UPS	Per Mtr	44561.52	Rupees Forty Four Thousand Five Hundred Sixty One And Paise Fifty Two Only
14	2	Supplying, installation, testing & commissioning of 12V DC, AH batteries in poly propylene container for U.P.S. Sealed maintenance free batteries.150 AH capacity	Nos	14790.90	Rupees Fourteen Thousand Seven Hundred Ninety And Paise Ninety Only
15	119750	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete.16SWG	Sqcm	0.346	Rupees And Paise Thirty Five Only
16	198.00	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint.40x40x6mm	Mtrs	267.50	Rupees Two Hundred Sixty Seven And Paise Fifty Only
17	880	Supplying heavy gauge PVC conduit pipe .....dia mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall / stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws.32mm dia 2.5mm thick	Mtrs	96.51	Rupees Ninety Six And Paise Fifty One Only
18	1165	Supplying and drawing Flexible Multicore Cable manufactured with electrolytic grade flexible copper with low conductor confirming to IS:8130-1984 and (Virgin) PVC insulation sheathed suitable for working voltage upto 1100Volts **as per IS-694:1990 4C X 2.5Sq.mm**	Mtrs	120.64	Rupees One Hundred Twenty And Paise Sixty Four Only
19	675	Supplying of 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975 4 core 16 sqmm	Mtrs	157.35	Rupees One Hundred Fifty Seven And Paise Thirty Five Only

	675	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.On wall /Structure 6 sqmm to 16 sqmm	Mtrs	12.46	Rupees Twelve And Paise Forty Six Only
21	351	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc.,complete.(As per Civil SR KSRB I-2, P-7)In soil (ordinary)	Mtrs	79.72	Rupees Seventy Nine And Paise Seventy Two Only
22	700	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes.35 sqmm Long Barrel	Nos	13.05	Rupees Thirteen And Paise Five Only
23	2	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics) THREE POLE 100Amps25kA.	Nos	4242.16	Rupees Four Thousand Two Hundred Forty Two And Paise Sixteen Only
		Total Part B			
		EXTRA ITEMS (EIRL)			
24	27	Fabricating, supplying and erection of ...Mtrs long hot dip **Galvanized Octagonal pole** with BSEN 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangements, including suitable boards, Bakelite sheet and MCBs as per IS specifications suitable to withstand the wind speed of 47 m/sec for .....Mtrs pole in single section and single joint welded as per IS 9595/IS 10178AWS having dimensions bottom .....mm, top....mm with 3mm thick, suitable base plate and 4Nos of ....long J bolts along with template and the pole shall be hot dip galvanized in single dipping with not less than 65micron as per ASTM-A123 and 153 etc., (excluding foundation) as per drawing appended. meters - Top 70mm and bottom 130mm dia	Nos	7651.00	Rupees Seven Thousand Six Hundred Fifty One Only
25	27	Pole concreting	Set	1695.00	Rupees One Thousand Six Hundred Ninety Five Only
26	27	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.6-32Amps SP	Each	434	Rupees Four Hundred Thirty Four Only
27	2	Supplying, fixing and wiring Earth Leakage Miniature Circuit Breaker **(ELMCB)** 240/450V up to 300mA sensitivity on existing wood/panel board.32-40 Amps 4 pole	Each	2800	Rupees Two Thousand Eight Hundred Only
28	27	Supply and Installation / Fixing / Provision of Pole box with HRC Fuse / MCB provision and suitable connector / terminal for 3 Ph / 1 Ph connections with Loop-In & Loop- Out terminals for 10 Sqmm / 25 Sqmm 3.5 C Al/Ar / Cu/ Ar Cable and branch out 2.5 Sqmm 2 core Al/Cu PVC Insulated cable, enclosed in a Thermoplastic, Polystyrene enclosure, which should be shock proof, safe, IP65(Weather Proof), rust proof, dust proof, water proof having Internally Embedded Gasket with provision for cable entry through IP65 Thermoplastic, polyamide glands and/or grommets.260mmx210mmx116mm	Each	2054	Rupees Two Thousand Fifty Four Only
29	1	Supplying and fixing Microprocessor Based Astronomical timer Switch with using necessary bolts, nuts and washers.	Each	4030.00	Rupees Four Thousand Thirty Only
30	1	Supply and fixing of 4pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947.100 to 125Amps	Each	7200	Rupees Seven Thousand Two Hundred Only
31	1	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 12 mm dia	No	2999.70	Rupees Two Thousand Nine Hundred Ninety Nine And Paise Seventy Only
		Total Rs			Rupees Nil
		Add GST 12% on Total			Rupees Nil
		Total Rs			Rupees Nil

		Approved Rates Including GST			Rupees Nil
32	8	Supply,Installation,TestingandCommissioningofLEDRGB/RGBWLinearWallWasherluminaireforFacadelightingwithaluminiumextrudedhousing,offollowingwattage.Luminaireshallbecapableofproducingdynamiccolorchanginglightwith16millioncolorsbyDMX/Ethernetbasedcontrol.Thebeamangleofthefittingshallbenarrow,medium,wideorasymmetricaspertherequirement.Luminaireshallbecompletewithdriverandcapableofperatingatlinevoltagewithoutanyseparatepowersupplyfrom100to270VAC,50Hz,powerfactor>0.9.Fixtureshallbesuitabletooperateatambienttemperaturerangeof-Cto+50°CandshallbeIP65andIK06rated.Lifetimeshouldbeatleast L70:50000burninghoursat50°C.LuminaireshallbeconformingtoBISandshallbecompletewithallnecessaryaccessoriesrequiredforproperworkingoffixtureincludingweatherproofconnectioncables,waterproofconnectors etc. as required 70 watts	Nos	54100.00	Rupees Fifty Four Thousand One Hundred Only
33	8	Supply,Installation,TestingandCommissioningofLEDRGB/RGBWLinearWallWasherluminaireforFacadelightingwithaluminiumextrudedhousing,offollowingwattage.Luminaireshallbecapableofproducingdynamiccolorchanginglightwith16millioncolorsbyDMX/Ethernetbasedcontrol.Thebeamangleofthefittingshallbenarrow,medium,wideorasymmetricaspertherequirement.Luminaireshallbecompletewithdriverandcapableofperatingatlinevoltagewithoutanyseparatepowersupplyfrom100to270VAC,50Hz,powerfactor>0.9.Fixtureshallbesuitabletooperateatambienttemperaturerangeof-10°Cto+50°CandshallbeIP65andIK06rated.Lifetimeshouldbeatleast L70:50000burninghoursat50°C.LuminaireshallbeconformingtoBISandshallbecompletewithallnecessaryaccessoriesrequiredforproperworkingoffixtureincludingweatherproofconnectioncables,waterproofconnectors etc. as required 40 Watts	Nos	39050.00	Rupees Thirty Nine Thousand Fifty Only

I am prepared to take up the above work at rates quoted in the Schedule 'B'

Contractor

EXECUTIVE ENGINEER (ELEC)
BBMP, Yelahanka Zone